

## ATTACHMENT B

## ***Curriculum Vitae***

|                       |  |
|-----------------------|--|
| <b>Name</b>           | Bing Ren   |
| <b>Address</b>        | Ludwig Institute for Cancer Research<br>9500 Gilman Drive<br>CMM-E, Room 3051<br>La Jolla, CA 92093-0653<br>U.S.A.<br><br>Phone: (858) 822-5766<br>Fax: (858) 534-7750<br>E-mail: biren@ucsd.edu<br>Website: <a href="http://licr-renlab.ucsd.edu">http://licr-renlab.ucsd.edu</a>   |
| <b>Nationality</b>    | People's Republic of China<br>Permanent resident of U.S.A.   |
| <b>Birth date</b>     | April 2, 1969  |
| <b>Degrees</b>        | B.S. in Biophysics, University of Science and Technology of China, 1991<br><br>M.S. in Computer Science, Harvard University, 1998<br><br>Ph.D. in Biochemistry, Harvard University, 1998<br>Thesis topic, "Mechanisms of Transcriptional Repression in Eukaryotic Cells"   |
| <b>Awards</b>         | Distinguished Young Investigator Award, Chinese Biological Investigators Society (2007)<br><br>The Charlotte Geyer Foundation Award (2004)<br><br>Sidney Kimmel Scholar Award (2002)<br><br>Helen Hay Whitney Foundation postdoctoral fellowship (1999 – 2001)<br><br>Harvard Certificate of Distinction in Teaching, Harvard University (1997)<br><br>Paul Mazur Fellowship in Experimental Biology, Harvard University (1994)<br><br>Scholarships, University of Science & Technology of China (1987-1991) |
| <b>Positions Held</b> | 7/2009- present      Member<br>Ludwig Institute for Cancer Research, San Diego Branch<br><br>7/2009- present      Professor<br>Department of Cellular and Molecular Medicine<br>UCSD School of Medicine<br><br>7/2007- 6/2009      Associate Member  |

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|                           |                  | Ludwig Institute for Cancer Research, San Diego Branch   |
|                           | 7/2007- 6/2009   | Associate Professor<br>Department of Cellular and Molecular Medicine<br>UCSD School of Medicine                          |
|                           | 10/2001- 6/2007  | Assistant Member<br>Ludwig Institute for Cancer Research, San Diego Branch   |
|                           | 10/2001- 6/2007  | Assistant Professor<br>Dept. of Cellular and Molecular Medicine<br>UCSD School of Medicine                               |
|                           | 10/1998 – 9/2001 | Postdoctoral Fellow in laboratory of Dr. Richard A. Young at the Whitehead Institute for Biomedical Research             |
|                           | 6/1993 – 9/1998  | Graduate student in laboratory of Dr. Tom Maniatis in Department of Molecular and Cellular biology at Harvard University |
| <b>University Service</b> | 2001-present     | UCSD Moores Cancer Center, Cancer Biology Program  |
|                           | 2002- 2004       | BMS Graduate Program Minor Proposition Committee   |
|                           | 2002.12          | UCSD Cancer Center Seed Monie review committee   |
|                           | 2003-2005        | Admission Committee for graduate students in the Biomedical Science program, UCSD School of Medicine                     |
|                           | 2003.6           | UCSD Cancer Center Intramural Grant Review Committee   |
|                           | 2004- present    | MSTP Admission Committee, UCSD School of medicine  |
|                           | 2006.12          | UCSD Cancer Center Intramural Grant Review Committee   |
|                           | 2007 – 2008      | Faculty Search Committee, Reproductive Biology   |
|                           | 2007 – 2009      | Faculty Search Committee, Molecular Genetic Chief  |
|                           | 2007 – 2008      | Faculty Search Committee, Bioinformatics   |
|                           | 2007 – present   | UCSD, Committee of Nomination  |
|                           | 2007 – 2009      | Design Team of Research Cyber-Infrastructure   |
|                           | 2008 – present   | Member, UCSD SOM Research Council  |

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| 2007 - present | Admission Committee for UCSD Bioinformatics Graduate Program |
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### Professional Service

|                |  |
|----------------|--|
| 2002- 2004     | National Research Council<br>"Committee on emerging issues and data on environmental contaminants" |
| 2006 – present | Editorial Board, Wiley Interdisciplinary Reviews (WIREs): Systems Biology                          |
| 2007           | Co-organizer, 5 <sup>th</sup> Cold Spring Harbor Laboratory Conference on Systems Biology          |
| 2008           | Co-organizer, 6 <sup>th</sup> Cold Spring Harbor Laboratory Conference on Systems Biology          |
| 2008 – present | Member of External Advisory Board of University of South California Epigenome Center               |
| 2007 – present | Member, Faculty of 1000 Biology/Genomics and Gene expression Section                               |

### Academic Membership

|                |   |
|----------------|---|
| 1997 – present | Member, American Association for the Advancement of Science |
| 2006 – present | Member, American Society of Human Genetics                  |
| 2007 - present | Member, Chinese Biological Investigator Society             |
| 2009 – present | Member, American Association of Cancer Research             |

### Grant Reviews

|  |      |
|--|------|
| The Innovative Molecular Analysis Technology panel (IMAT), NCI                   | 2004 |
| Cancer Genome Characterization Centers, NCI                                      | 2006 |
| Reviewer, Wellcome Trust Career Development Award                                | 2006 |
| Reviewer, Strategic Initiative in Life Sciences, The Argonne National Laboratory | 2006 |
| Reviewer, W. M. Keck Foundation Medical Research Grant                           | 2006 |
| Reviewer, National Science Foundation Grant                                      | 2006 |

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| Reviewer, ACS Molecular Genetic section  | 2008 |
| Ad hoc member, NIH Study Section GCAT  | 2008 |
| Ad hoc member, NIH CEGS Study Section  | 2008 |
| Member, NIH Special Emphasis Panel on<br>"Technology Development in Epigenetics" | 2008 |
| Ad hoc member, Genes, Genomics, Genetics<br>Fellowship Study Section, NIH        | 2009 |
| Member, NCI Special Emphasis Panel on<br>TCGA centers                            | 2009 |
| Member, NIH Study Section GCAT   | 2009 |

## Research Funding

|   |                               |   |
|---|-------------------------------|---|
| San Diego Epigenome Center<br>(1U01ES017166)  | 09/2008 -<br>06/2013          | \$16,640,738<br>total                     |
| Genome-wide map of active promoters in the<br>mouse cells (1R01HG003991)                          | 09/2008 –<br>06/2011          | \$1,720,621<br>total                      |
| Mechanisms of chromatin dynamics at<br>enhancers during ES cell differentiation<br>(RN2-00905-1)  | 12/2008 –<br>08/2013          | \$1,700,000<br>total                      |
| Computational Modeling of Mammalian<br>Promoters (R01 HG001696)                                   | 05/2008 –<br>02/2011          | \$60,643<br>direct<br>annually            |
| California Institute of Regenerative Medicine<br>Leon Thal SEED grant (PI: Ren)                   | 02/1/2008 –<br>01/31/2010     | \$653,823<br>total                        |
| NIH/NHGRI /U01 HG003151 (PI: Ren)<br>"Mapping transcriptional regulator elements in<br>human DNA" | 08/1/2006 –<br>09/31/2008     | Estimated<br>Total<br>\$632,399<br>direct |
| NIH/NHGRI/U01 HG004264-01 (PI: K. White)<br>"A Cis Regulatory map of the Drosophila<br>Genome"    | 5/01/2007-<br>4/30/2011       | Estimated<br>Total<br>\$600,000           |
| NIH/NCI / 4R33CA105829 (PI: Ren)<br>"Transcription Factor Target Mapping in<br>Mammalian Genome"  | 08/16/2005<br>–<br>07/31/2008 | Total<br>\$591,000<br>direct              |
| NIH/NHGRI /U01 HG003151 (PI: Ren)<br>"Mapping transcriptional regulator elements in<br>human DNA" | 09/30/2003<br>–<br>07/31/2006 | Total<br>\$2,185,348<br>direct            |
| NIH/NHGRI/R01 HG003119-01 (PI: Fu)<br>"A novel ChIP-on-Chip Technology for<br>ENCODE"             | 10/01/2003<br>–<br>09/30/2006 | Subtotal<br>\$84,444<br>direct            |

|  |            |           |
|--|------------|-----------|
| NIH/NCI /1R21CA105829-01 (PI: Ren)   | 08/16/2004 | Total     |
| "Transcription Factor Target Mapping in Mammalian Genome"                                      | –          | \$100,000 |
|  | 07/31/2005 | direct    |
| Charlotte Geyer Foundation Award (PI: Ren)   | 1/1/2004 – | Total     |
| "Transcription Factor Target Mapping in Mammalian Genome"                                      | 08/15/2004 | \$85,000  |
| Kimmel Scholar Award (PI: Ren)   | 08/01/2002 | Total     |
| "Mechanisms of human tumorigenesis by c-myc: identification of direct transcriptional targets" | –          | \$200,000 |
|  | 07/31/2004 |           |
| W.M. Keck Foundation (PI: Ren)   | 08/01/2003 | Total:    |
| No specific project  | –          | \$10,000  |
|  | 07/31/2004 |           |
| ACS/IRG 70-002 (PI: Ren)   | 08/01/2002 | Total     |
| "A general method to identify in vivo target genes for mouse transcription factors"            | –          | \$20,000  |
|  | 07/31/2003 |           |
| Ludwig Institute General Support (PI: Ren)   | Since 2001 |           |

## Teaching

|             |   |
|-------------|---|
| 2002-2006   | BIOM211, Molecular Biology for graduate students (3 hours of lecture time each year)  |
| 2003-2006   | CBB: Cellular Biochemistry and Biology Reading group for medical students (18 hours each year)  |
| 2002-2006   | ME260: Modern Techniques of Biomedical Research for graduate students (2 hours each year)   |
| 2003-2005   | Systems Biology for graduate students (3 hours each year)   |
| 2005-2006   | BGGN220: Biology graduate core course (2 hours of lecture time each year)   |
| 2004-2006   | Path 221: Molecular Pathology of Cancer (2 hours of lecture time each year)   |
| 2006 - 2008 | CBMD, Cellular and Molecular Basis of Diseases (2 two-hour lectures each year)  |
| 2006 - now  | BIOM 254-2, Molecular and Cell Biology Track Core Course on Transcription and Epigenetics (I give two 90-min lectures each week for nine weeks) |
| 2006- now   | BIOM200A/B: Molecular and Cellular Biology Core Course, module director (I give three two-hour lectures for this course)                        |

## Graduate students supervised

|                 |                |                              |
|-----------------|----------------|------------------------------|
| Nate Heintzman  | 2002 – 2007    | Biodiscovery Fellow at UCSD  |
| Nate Maynard    | 2002 – 2008    | Postdoc in Stanford U.       |
| Leah O. Barrera | 2003 – 2007    | Scientist, Ambit Biosciences |
| Saurabh Agarwal | 2005 – present |                              |

|                 |                |                 |
|-----------------|----------------|-----------------|
| Gary Hon        | 2006 – 2009    | Postdoc in LICR |
| Nisha Rajagopal | 2009 - present |                 |
| Chloe Rivera    | 2009 - present |                 |

#### Postdoctoral fellows supervised

|                  |                |  |
|------------------|----------------|--|
| Zirong Li        | 2002 – 2007    | Scientist at Millipore                 |
| Tae Hoon Kim     | 2002 – 2006    | Assistant Professor at Yale University |
| Kun Wang         | 2003 – 2005    | Currently practicing law               |
| David Hawkins    | 2005 – present |  |
| Andrea Smallwood | 2007 – present |  |
| Fulai Jin        | 2007 – present |  |
| Celso Espionzoza | 2007 – present |  |
| Feng Yue         | 2008 – present |  |
| Haruhiko Ishii   | 2008 – 2009    | Project Scientist at UCSD              |
| Yin Shen         | 2008 – present |  |
| Tingting Du      | 2008 – present |  |
| Yan Li           | 2009 – present |  |
| Gary Hon         | 2009 – present |  |

#### Invited presentations

- 2001 Cold Spring Harbor Computational Biology Symposium, Long Island, NY, September 2001.  
National Institute of Environmental Health and Sciences Symposium, Bethesda, Maryland, December 2001
- 2002 Gordon Research Conference on Hormonal Regulation, Vermont, July 2002  
South California Biotechnology Symposium, Irvine, CA, October 2002
- 2003 Ray Wu Society meeting, San Diego, January 2003  
Institute of Theoretical Physics meeting on computation biology, Santa Barbara, February 2003  
Cold Spring Harbor Systems Biology Symposium, Long Island, NY, March 2003  
University of California, Los Angeles, Department of Human Genetics, April 2003  
University of California, Riverside, Department of Biochemistry, November 2003
- 2004 University of California, Davis, Comprehensive Cancer Center, February 19, 2004.  
ReCOMB Satellite workshop on "Regulatory Genomics", San Diego, CA, March 26-27, 2004  
Keystone Symposium on "Biological Discovery Using Diverse High-through Put Data", Steamboat Springs, Colorado, March 30-April 4, 2004  
Rockefeller University, October 27, 2004.  
54<sup>th</sup> Annual meeting of society of human genetics, Toronto, Canada, October 26-30, 2004.

- 2005 International workshop on Encoding information, Okinawa, Japan, February 21-27, 2005.
- University of Michigan, Ann Arbor, Bioinformatics Program, March 30.
- Keystone Symposium on "Biolipids, lipidomics and their targets" and "PPAR/LXR", Whistler, British Columbia, CA, April 12-17, 2005.
- University of California, Riverside, Program of Genetics, Genomics and Bioinformatics, April 18, 2005.
- National Cancer Institute, Integrative Systems Biology Working group seminar series. Bethesda, Maryland. July 20<sup>th</sup>, 2005.
- 24<sup>th</sup> Penn State Summer Symposium on molecular biology – Comparative and Functional Genomics. State College, PA. July 20-23, 2005
- 64<sup>th</sup> Annual Meeting of Society of Developmental Biology. San Francisco, CA. July 27-31, 2005.
- University of California, Irvine, Department of Biological Chemistry and Cancer Research Institute Seminar series. September 16<sup>th</sup>, 2005
- Emory University, Department of Human Genetics seminar series. October 17<sup>th</sup>, 2005
- Institute of Systems Biology. October 28<sup>th</sup>, 2005
- Michigan State University, Department of Biochemistry and Molecular Biology. November 13<sup>th</sup>, 2005
- NCI Workshop on "Defining the Epigenome", Rockville, November 28-29, 2005
- Albert Einstein College of Medicine, Department of Developmental and Molecular Biology. December 13, 2005
- 2006 Morehouse School of Medicine, February 7<sup>th</sup>, 2006
- Cold Spring Harbor Systems Biology Symposium, Long Island, NY, March 23-26, 2006
- Wellcome Trust Advanced Courses on Microarray, Hinxton, UK, April 10, 2006
- Keystone Symposium on Transcription and Chromatin, Taos, New Mexico, April 21-26, 2006
- Integrative Cancer Biology Program (ICBP) Principle Investigator meeting, Nashville, TN, May 1<sup>st</sup>, 2006
- UCSD Cancer Center Luncheon Talk series, UCSD, May 3<sup>rd</sup>, 2006
- Case Western Reserve University, Department of Genetics, Cleveland, Ohio, June 14, 2006
- 20<sup>th</sup> IUBMB Congress in Kyoto, Japan, June 18-23, 2006
- RIKEN Genomic Sciences Center, Yokohama, Japan, June 18, 2006
- Tokyo University, Tokyo, Japan, June 18, 2006
- 11<sup>th</sup> SCBA International Symposium, San Francisco, CA, July 19-23, 2006
- FASEB Summer Research Conference on "Transcriptional Regulation During Cell Growth, Differentiation, and Development", Vermont Academy, Saxtons River VT, August 12-16, 2006
- City of Hope, Los Angeles, CA, August 30, 2006



- “Lausanne Genomics Days” conference, Lausanne, Switzerland, Oct. 5-6, 2006
- Pathways, Networks and Systems Conference in Mykonos, Greece, Oct. 8-13, 2006
- University of Connecticut, Department of genetics and developmental biology, Nov. 2, 2006
- Australian Health & Medical Research Congress, in Melbourne, Australia, Nov. 26 – Dec.1 2006
- RECOMB Satellite conference on Systems Biology, San Diego, Dec 1-3, 2006
- 2007 Symposium on Systems Biology/Molecular Networks, Institut de recherches cliniques de Montreal (IRCM), Montreal, Canada, March 12-13, 2007
- Roadmap 1.5 epigenetic workshop, NIH, Bethesda, March 19, 2007
- Invited Speaker, The Second Cistrome meeting, Harvard Medical School, May 31<sup>st</sup>, 2007
- Invited speaker, Symposium on “Frontiers in Biological Sciences”, Beijing, July 22, 2007
- Gordon Research Conference on Epigenetic, Plymouth, New Hampshire, August 5-10, 2007
- Invited seminar speaker, University of Wisconsin at Madison, Genome Center, September 05, 2007
- Invited seminar speaker, University of Southern California, Keck School of Medicine, September 23, 2007
- Workshop "Mechanistic and integrative aspects of mRNA synthesis", Baeza, Spain, October 1-3, 2007
- Invited seminar speaker, University of Washington, Seattle, Department of Genome Sciences, October 17, 2007
- Invited seminar speaker, Washington State University, School of Molecular Biosciences, October 18, 2007
- 2008 Invited speaker, Symposium on “Systems to Synthesis”, Salk Institute, La Jolla, CA. January 15<sup>th</sup>, 2008.
- Invited seminar Speaker, Joint Seminars in Molecular Biology Program of University of California, Davis. January 17<sup>th</sup>, 2008.
- Invited speaker and session chair, The Keystone Conference on “Regulatory Mechanisms in Eukaryotic Transcription”, Keystone, CO. February 3<sup>rd</sup> – 8<sup>th</sup>, 2008.
- Invited seminar speaker, The Molecular and Human Genetics Seminar Series, Baylor College of Medicine, Houston, TX. February 26<sup>th</sup>, 2008.
- Invited seminar speaker, Genetics Seminar Series, Texas A&M University, College Station, TX. February 28<sup>th</sup>, 2008.
- Invited seminar speaker, Biochemistry Seminar Series, University of Colorado, Boulder, March 12, 2008.
- Invited seminar speaker, NIDDK, NIH, Bethesda, MA, April 24, 2008
- Invited seminar speaker, University of South Florida, Tampa, FL, April 25, 2008
- Invited seminar speaker, University of Massachusetts Medical School, Worcester, May 14, 2008

- Invited speaker, CAS International Symposium on Developmental Systems Biology, Beijing, China, May 18-20, 2008
- Invited seminar speaker, UCLA Department of Biochemistry, Los Angeles, CA, June 5, 2008
- Invited speaker, FESAB Summer Conference on "Transcriptional Regulation During Cell Growth, Differentiation, and Development", June 22-27, 2008
- Invited speaker, NIA Workshop on "Epigenetics and Aging", Bethesda, MA, July 14-15, 2008
- Invited speaker, The 18th Annual BioCity Symposium on "Genes, Chromatin and Disease", BioCity, Turku, Finland, August 14-15, 2008
- Invited speaker, Nature Genetics/Wellcome Trust Conference on "Genomics of Common Human Diseases", Boston, MA, September 6-9, 2008
- Invited seminar speaker, Frontiers in Bioinformatics and Systems Biology Colloquium, UCSD, San Diego, CA, October 9, 2008
- Invited speaker, RECOMB Regulatory Genomics 2008 Conference, Cambridge, MA, October 31 – November 2, 2008
- Invited seminar speaker, Fred Hutchinson Cancer Research Center, Seattle, WA, November 18, 2008
- Invited seminar speaker, University of Toronto, Toronto, Canada, December 12, 2008.
- 2009 Invited seminar speaker, Genomic Institute of Singapore, Singapore, January 6, 2009
- Invited seminar speaker, Institute of Genome Sciences and Policy, Duke University, Durham, NC, January 27, 2009
- Invited speaker, Second Scripps Genomics for Transplantation Symposium, TSRI, La Jolla, CA, January 30, 2009
- Invited speaker, Symposium on "New Frontiers in Ultra High Throughput Biology", UCLA, February 19-20, 2009
- Invited seminar speaker, Department of Genetics, Yale University, New Haven, CT, February 24, 2009
- Invited speaker, Future of Genomics Medicine II, TSRI, La Jolla, CA, February 27-28, 2009
- Invited speaker, Keystone Symposium on Epigenetic Basis of Neurodevelopmental Disorders, Keystone, Colorado, March 6-10, 2009
- Invited speaker, Emerging Evidence for Epigenomic Changes in Human Disease, NIH, Bethesda, Maryland, March 15-17, 2009
- Invited seminar speaker, Center for Complex Biological Systems, University of California, Irvine, March 19, 2009
- Invited speaker, AACR Annual Conference, Denver, Colorado, April 18-22, 2009
- Invited seminar speaker, Stowers Institute, April 29, 2009
- Invited seminar speaker, Institute of Genomics and Systems Biology, University of Chicago, Chicago, Illinois, May 15, 2009
- Invited seminar speaker, Children's Memorial Research Center, Northwestern University Feinberg School of Medicine, Chicago, Illinois, May 16, 2009

Invited speaker, symposium on "Genome Frontiers in Human Health and Diseases", UCSD, June 3, 2009

Invited speaker, Symposium "From Cell Signaling to Medical Systems Biology", BioCity, Turku, June 11-12, 2009

Invited speaker, Keystone Conference on "Deregulation of Transcription in Cancer: Controlling Cell Fate Decisions", Killarney, County Kerry, Ireland, June 21–26, 2009

## List of Publications

1. Zhou, Y., Wang, W., **Ren, B.** Shou, T. (1994) Receptive field properties of cat retinal ganglion cells during short-term IOP elevation. *Investigative Ophthalmology & Visual Science*, 35(6):2758-64
2. **Ren, B.** and Maniatis, T. (1998) Regulation of *Drosophila* Adh promoter switching by an initiator-targeted repression mechanism. *EMBO J.* 17(4): 1076-1086,
3. **Ren, B.**, Chee, K.J., Kim, T.H. and Maniatis, T. (1999) PRDI-BF1/Blimp-1 repression is mediated by corepressors of the groucho family of proteins. *Genes & Dev.* 13(1): 125-137
4. **Ren, B.**, Robert, F., Wyrick, J. W., Aparicio, O., Jennings, E. G., Simon, I., Zeitlinger, J., Schreiber, J., Hannett, N., Kanin, E., Volkert, T. L., Wilson, C., Bell, S. P. and Young, R. A. Genome-wide Location and Function of DNA-associated Proteins. (2000) *Science*, 290: 2306-2309
5. Causton, H.C., **Ren, B.**, Koh S.S., Harbison, C.T., Kanin, E., Jennings, E.G., Lee, T.I., True, H.L., Lander, E.S. and Young, R.A. (2001) Remodeling of Yeast Genome Expression in Response to Environmental Change. *Mol. Biol. Cell*, 12(12): 323-337
6. **Ren, B.**, Cam, H., Takahashi, Y., Volkert, T., Terragni, J., Young, R.A., and Dynlacht, B.D. (2002). E2F Integrates Cell Cycle Progression with DNA Repair, Replication, and G2/M Checkpoints. *Genes & Development*, 16: 245-256,
7. Lee, T.I., Rinaldi, N.J., Robert, F., Odom, D.T., Bar-Joseph, Z., Gerber, G.K., Hannett, N.M., T. Harbison, C.T., Thompson, C.M., Simon, I., Zeitlinger, J., Jennings, E.G., Murray, H.L., Gordon, D.B., **Ren, B.**, Wyrick, J.J., Tagne, J., Volkert, T.L., Fraenkel, E., David K. Gifford, D., Young, R.A., (2002) Transcriptional Regulatory Networks in *Saccharomyces cerevisiae*. *Science*, 298:799-804,
8. Li, Z., Van Calcar, S., Qu, C., Cavenee, W. K., Zhang, M., and **Ren, B.** (2003). A Global Regulatory Role for c-myc in Burkitt's Lymphoma Cells, *Proc Natl Acad Sci U S A*; 100:8164-8169.
9. **Ren, B.** and Dynlacht, BD. (2004) Use of chromatin immunoprecipitation assays in genome-wide location analysis of mammalian transcription factors. *Methods and Enzymology*, Vol 376. 304-315
10. The ENCODE Project Consortium (2004). The ENCODE (ENCyclopedia Of DNA Elements) Project. *Science* 306, 636-640.
11. Kim, T.H., Xiong, H., Zhang, Z.H. and **Ren, B.** (2005).  $\beta$ -catenin activates endothelin-1 in colon cancer cells. *Oncogene*; 24:597-604.

12. Kim, TH, Barrera, LO, Qu, CX, Van Calcar, S, Trinklein, ND, Cooper, SJ, Luna, R, Glass, CK, Rosenfeld, MG, Myers, RM and **Ren, B** (2005). Direct isolation and identification of promoters in the human genome. *Genome Research*; 15:830-839
13. Kim, TH, Barrera, LO, Zheng, M, Qu, C, Singer, MA, Richmand, TA, Wu, Y, Green, RD and **Ren, B.** (2005) A high-resolution map of active promoters in the human genome. *Nature*, 436:876-80
14. Sun, P, Xiong, H, Kim, TH, **Ren, B**, and Zhang Z (2006). Positive inter-regulation between beta-catenin/T cell factor-4 signaling and endothelin-1 signaling potentiates proliferation and survival of prostate cancer cells. *Mol Pharmacol*, 69:520-31
15. Kim, TH and **Ren, B.** (2006) Genome-wide Analysis of Protein-DNA Interactions. *Annual Review of Genomics and Human Genetics*, Vol 7. *in press*.
16. Barrera, LO and **Ren, B.** (2006) The transcriptional regulatory code of eukaryotic cells – Insights from Genome-wide Analysis of Chromatin Organization and Transcription Factor Binding. *Current Opinions of Cell Biology*, Vol 18:1-8
17. Hawkins, RD and **Ren, B.** (2006) Genome-wide Location Analysis: insights on transcriptional regulation. *Human Molecular Genetics*, Vol 15, R1-R7
18. Zheng, M, Barrera, LO, **Ren, B** and Wu, Y (2007) ChIP-chip: data, model, and analysis. *Biometrics*, 63(3):787-96
19. Toyo-oka, K., Bowen T.J., Hirotsune S., Li, Z., Jain, S., Ota, S., Lozach, L.E., Bassett, I.G., Lozach, J., Rosenfeld, M.G., Glass, C.K., Eisenman, R., **Ren, B.**, Hurlin, P. and Wynshaw-Boris, A., (2006) Mnt-deficient mammary glands exhibit impaired involution and tumors with characteristics of Myc overexpression. *Cancer Research*, 66:5565-73
20. Kim TH, **Ren B.** (2006) An all-round view of eukaryotic transcription. *Genome Biol.* 7:323
21. Heintzman N.D., Stuart R.K., Hon G., Fu Y., Barrera L.O., Van Calcar S., Qu C., Ching K.A., Wang W., Weng Z., Green R.D., Crawford G. and **Ren B.**, (2007) Distinct and predictive chromatin signatures of transcriptional promoters and enhancers in the human genome. *Nature Genetics*, 39:311-318
22. Kim T.H., Abdullayev Z., Smith A., Ching K.A., Loukinov D., Green R.D., Zhang M.Q., Lobanenko V., and **Ren B.** (2007) Analysis of the vertebrate insulator protein CTCF binding in the human genome. *Cell*, 128:1231-1245
23. Heintzman N.D. and **Ren, B.**, (2007) The Gateway to Transcription: Identifying, Characterizing, and Understanding Promoters in the Eukaryotic Genome, *Cellular and Molecular Life Sciences*, 64:386-400
24. The ENCODE consortium (2007) The ENCODE pilot project: Identification and analysis of functional elements in 1% of the human genome. *Nature* 447:799-816
25. E. Spiteri, G. Konopka, G. Coppola, J. Bomar, M. Oldham, J. Ou, S. C. Vernes, S. E. Fisher, **B. Ren**, D. H. Geschwind (2007) Identification of the transcriptional targets of FOXP2, a gene linked to speech and language in developing human brain. *American J. of Human Genetics*, 81:1144-1157
26. Xi H, Shulha HP, Lin JM, Vales TR, Fu Y, Bodine DM, McKay RD, Chenoweth JG, Tesar PJ, Furey TS, **Ren B**, Weng Z, Crawford GE. (2007) Identification and Characterization of Cell Type-Specific and Ubiquitous Chromatin Regulatory Structures in the Human Genome. *PLoS Genet.* 3(8): e136

27. Barrera LO, Li Z, Smith AD, Zhang MQ, Green RD and **Ren B** (2008) Genome-wide mapping of active promoters in mouse embryonic stem cells and adult organs. *Genome Research*, 18(1):46-5
28. Maynard, ND, Chen, Stuart, RK, Fan, JB, and **Ren, B**, (2008) Genome-wide Mapping of Allele-specific Protein-DNA Interactions in Human Cells. *Nature Methods*, 5(4):307-9
29. Bibikova, M, Laurent, LC, **Ren, B**, Loring, JF, and Fan, JB, (2008) Unraveling Epigenetic Regulation in Embryonic Stem Cells. *Cell Stem Cell*, 2: 123 – 134
30. Johnson DS, Li W, Gordon DB, Bhattacharjee A, Curry B, Ghosh J, Brizuela L, Carroll JS, Brown M, Flicek P, Koch CM, Dunham I, Bieda M, Xu X, Farnham PJ, Kapranov P, Nix DA, Gingeras TR, Zhang X, Holster H, Jiang N, Green RD, Song JS, McCuine SA, Anton E, Nguyen L, Trinklein ND, Ye Z, Ching K, Hawkins D, **Ren B**, Scacheri PC, Rozowsky J, Karpikov A, Euskirchen G, Weissman S, Gerstein M, Snyder M, Yang A, Moqtaderi Z, Hirsch H, Shulha HP, Fu Y, Weng Z, Struhl K, Myers RM, Lieb JD, Liu XS. (2008) Systematic evaluation of variability in ChIP-chip experiments using predefined DNA targets. *Genome Res.* 18(3):393-403.
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#### **Patents**

1. Wyrick, JJ, Young, RA, **Ren, B**, Robert, F. (2002) Chromosome-wide analysis of protein-DNA interactions. U.S. Patent # 6,410,243.
2. **Ren, B**, Hawkins, RD, Hon, GC, Heintzman, ND (2009) Enhancer signatures in the prognosis and diagnosis of cancers and other disorders. (pending)